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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/540,089	06/20/2005	Per-Ingvar Branemark	2816-4	6438
616 THE MAXHAN	7590 12/22/200 M FIRM	EXAMINER		
9330 SCRANT	ON ROAD, SUITE 35	0	WOODALL, NICHOLAS W	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
			3775	
			MAIL DATE	DELIVERY MODE
			12/22/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)		
	10/540,089	BRANEMARK, PER-INGVAR		
Office Action Summary	Examiner	Art Unit		
	Nicholas Woodall	3775		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on <u>03 C</u>	s action is non-final. ince except for formal matters, pr			
Disposition of Claims				
4)	wn from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 20.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate		

Application/Control Number: 10/540,089 Page 2

Art Unit: 3775

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 10/03/2008 has been entered.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 11-14, 16-20, 22-34, and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Branemark (U.S. Patent 5,171,284) in view of Lemos (U.S. Patent 3,979,829).

Branemark discloses a titanium device comprising a generally cylindrical anchoring portion formed with an insertion end and having an external screw thread (6), a cavity having a circular cross-section that widens towards the insertion end and opens out at the insertion end, and a plurality of through-penetrating cutting slots (8 and 9) extending from the insertion end that connect the cavity to the outside of the anchoring portion. The slots including a leading slot wall surface and a trailing slot wall surface

Art Unit: 3775

related to the direction of rotation, wherein each surface faces into the slot and the outermost portion of the trailing wall surface defines a cutting edge. Branemark fails to disclose the device wherein the cutting edge of the trailing slot wall surface is at an acute angle relative to the outside of the anchoring portion with the radial direction and the trailing slot wall surface sloping obliquely forward from within and outwardly in the direction of rotation and wherein the leading slot wall surface is parallel to the trailing slot wall surface. Lemos teaches a device comprising cutting slots (34) connected to a cavity (24) including a trailing slot wall surface (37) defining a cutting edge at an acute angle relative to the outside of the anchoring portion with the radial direction and the trailing slot wall surface sloping obliquely forward from within and outwardly in the direction of rotation (36) and wherein the leading slot wall surface (33) is parallel to the trailing slot wall surface in order to increase the migration of material to the cavity (column 6 lines 7-20). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Branemark wherein the trailing slot wall surface and the leading slot wall surface are provided at an angle in view of Lemos in order to increase the migration of material to the cavity.

The device of Branemark as modified by Lemos discloses the invention as claimed except for the angle at the radially outer end of the trailing slot wall surface is 20-40 degrees, the angle at the radially outer end of the trailing slot wall surface is 27-33 degrees, the plurality of slots includes 5-7 slots, and the slot width at the radially outer end of the slot corresponds to 15-35 percent of the peripheral distance between two slots on the outside of the device. Regarding the angle being 20-40 degrees or 27-

Application/Control Number: 10/540,089

Page 4

Art Unit: 3775

33 degrees, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Branemark as modified by Lemos wherein the angle is 20-40 degrees or 27-33 degrees, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233. Regarding the plurality of slots includes 5-7 slots, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Branemark as modified by Lemos wherein the plurality of slots includes 5-7 slots, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. Regarding the slot width at the radially outer end of the slot corresponds to 15-35 percent of the peripheral distance between two slots on the outside of the device, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide the device of Branemark as modified by Lemos wherein the slot width at the radially outer end of the slot corresponds to 15-35 percent of the peripheral distance between two slots on the outside of the device., since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233.

Response to Arguments

4. Applicant's arguments with respect to claims 11-14, 16-20, 22-34, and 36 have been considered but are moot in view of the new ground(s) of rejection.

Application/Control Number: 10/540,089 Page 5

Art Unit: 3775

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 for cited references the examiner felt were relevant to the application.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Woodall whose telephone number is (571)272-5204. The examiner can normally be reached on Monday to Friday 8:00 to 5:30 EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nicholas Woodall/ Examiner, Art Unit 3775 /Eduardo C. Robert/ Supervisory Patent Examiner, Art Unit 3733